

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

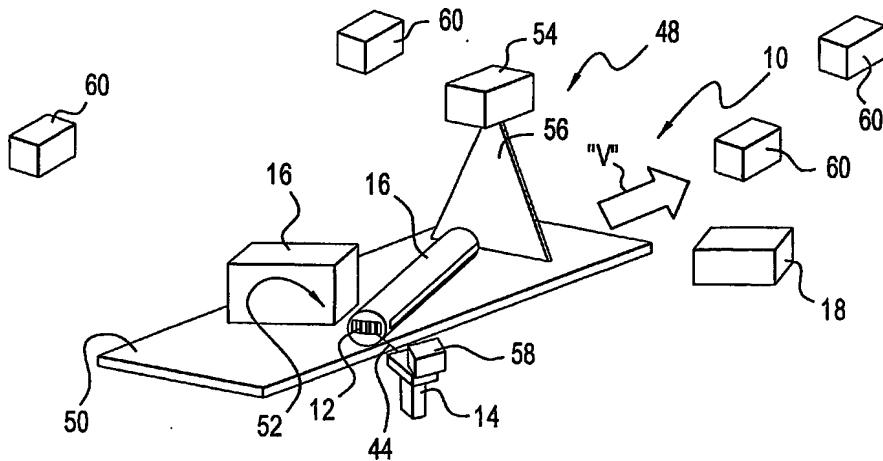
PCT

(10) International Publication Number
WO 2005/013182 A1

- (51) International Patent Classification⁷: **G06K 7/10**
- (21) International Application Number:
PCT/US2004/004980
- (22) International Filing Date: 19 February 2004 (19.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/484,024 1 July 2003 (01.07.2003) US
- (71) Applicant (for all designated States except US):
ACCU-SORT SYSTEMS INC. [US/US]; 511 School House Road, Telford, Pennsylvania 18969-1196 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **ODENTHAL, James, Paul** [US/US]; 1246 E. Evergreen Drive, Phoenixville, Pennsylvania 19460 (US).
- (74) Agent: HUIS, Randolph, J.; United Plaza Building, Suite 1600, 30 S. 17th Street, Philadelphia, Pennsylvania 19103 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR ASSOCIATING MACHINE READABLE INFORMATION AND DIMENSIONING DATA FOR CONVEYOR BORNE PACKAGES



WO 2005/013182 A1

(57) Abstract: A method for associating machine readable information (12) on singulated or non-singulated packages (15) on a conveyor (50) with dimensioning data is provided. The method includes orienting a handheld scanner (14) toward a package (15) on the conveyor (50) to read machine readable information on the package. A specific time and pose data of the scanner are determined when the machine readable information is read. A beam vector (44) is determined using the pose data, as well as a conveyor position at the specific time. When an associated portion of the conveyor reaches a dimensioning station, dimensioning data for a package is obtained. The dimensioning data is correlated with the beam vector to associate the dimensioning data for the package with the corresponding machine readable information read by the handheld scanner. A system for providing the method is also provided.



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.